



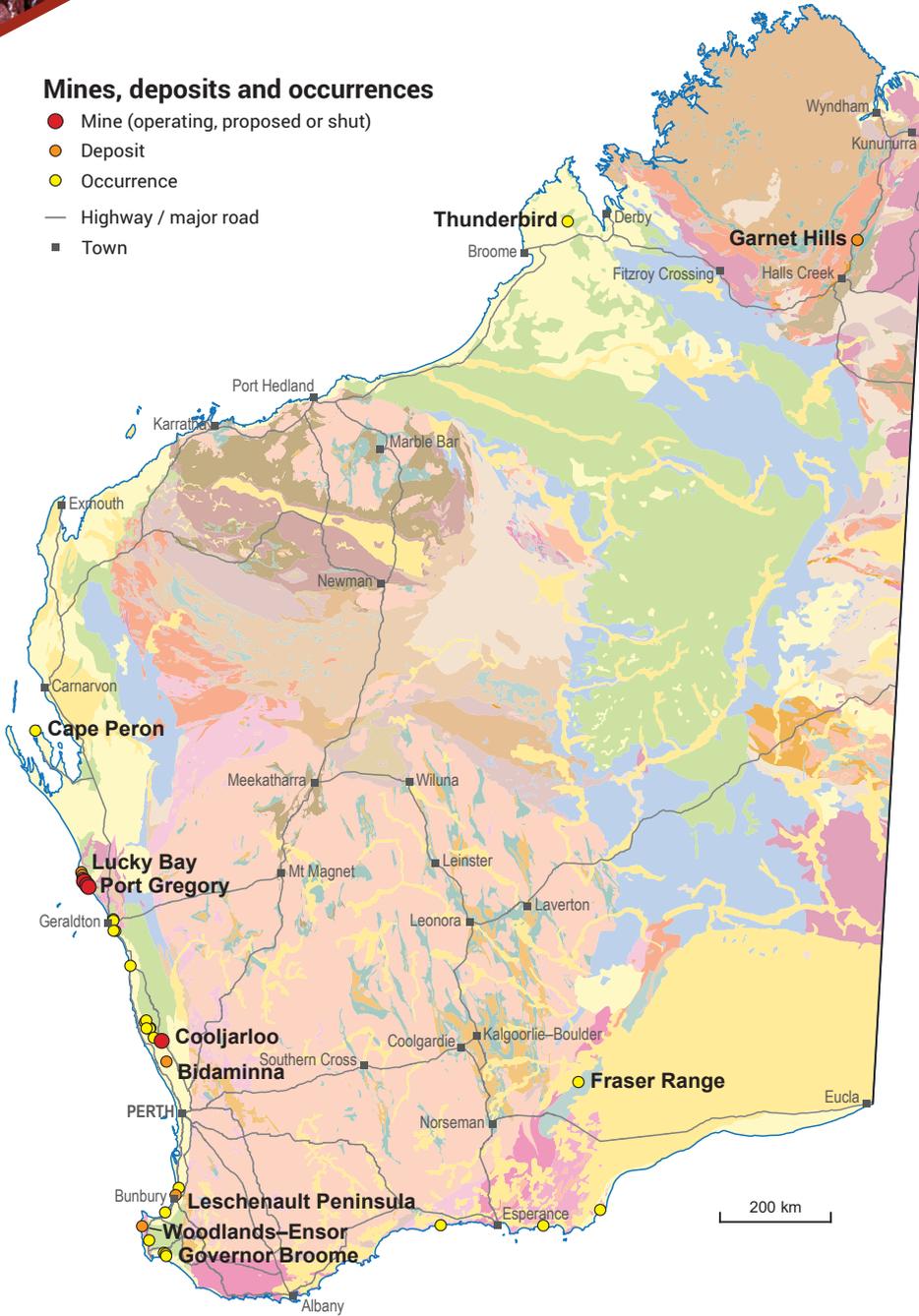
GARNET

INVESTMENT OPPORTUNITIES

**WORLD-CLASS RESOURCE PROVINCE | SECURE INVESTMENT LOCATION
WORLD-LEADING GEOSCIENTIFIC DATA | GLOBAL MINING SERVICES INDUSTRY**

Mines, deposits and occurrences

- Mine (operating, proposed or shut)
- Deposit
- Occurrence
- Highway / major road
- Town



Western Australia is the world's largest producer of industrial garnet

- Port Gregory is Australia's only operating garnet mine
 - Supplies high-quality garnet from sands which have eroded from the Yilgarn Craton
 - Has been operating for over 40 years
- Construction of a second garnet mine at Lucky Bay is now underway
- The industrial garnet market is growing, as it is a safer, more environmental replacement for silica sands
- Alluvial garnet is associated with sand dune deposits in Western Australia



Department of Mines,
Petroleum and Exploration

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Geological Survey of
Western Australia

Garnet resources ranked by contained garnet (kt)

Resources are NOT estimated to JORC 2012 (except for Lucky Bay)

Project	Status	Owner	Resources (Mt)	Av. grade garnet (%)	Contained garnet (kt)	Resource date
Lucky Bay	Under development	Resource Development Group	18.8	86.1	16 198	01/07/2021
Port Gregory	Operating	GMA Garnet	17.3	91.1	15 726	08/02/2018
Garnet Hills	Exploration	Garnet Hills	0.1	100.0	66	31/05/1997

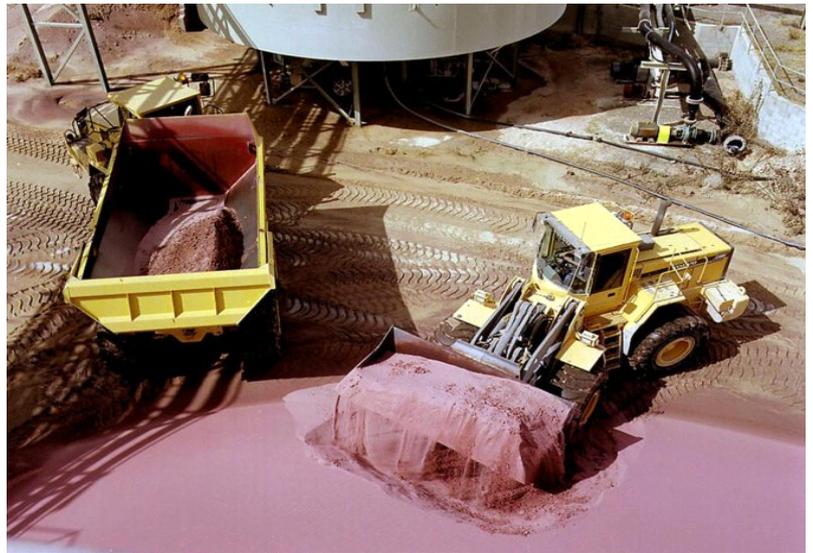
Resource estimates have been rounded

 Metamorphic deposit

 Sand deposit

Properties and uses

- Garnet is generally sourced from gneissic and schistose rocks
- Erosion of the garnet rich-rocks plus the preferential deposition of garnet within sand dunes also occurs along the Western Australian coastline
- Garnet has applications as an industrial mineral due to its highly abrasive properties
- Industrial garnet is used in abrasive blasting, water-jet cutting and water filtration
- It is also preferred in industrial applications over silica due to its low health impacts and recyclability



Loading industrial garnet in Western Australia (Source: Quelle: Jebesen and Jessen-Gruppe)

For more information

MINEDEX is a spatial and textual database of mining and exploration activity

MINEDEX

www.dmpe.wa.gov.au/minedex

GeoVIEW.WA is a free GIS-based spatial viewer

GeoVIEW.WA

www.dmpe.wa.gov.au/geoview

DMPE'S MINEDEX, Statistics, and Title and Geoscience Services teams have contributed to the production of this flyer

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**Geological Survey of
 Western Australia**